

Ultrasonic standing-wave atomizer arrangement

Abstract

The invention relates to an ultrasonic standing-wave atomizer arrangement (10) for producing a paint spray mist for painting a workpiece, with a sonotrode (1), with a component (2) arranged lying opposite the sonotrode (16, 28, 38), a standing ultrasonic field being formed in the intermediate space between the sonotrode (1) and the component (2) in the case of operation, and with at least one paint feeding device, which introduces the paint into the intermediate space for the atomizing process at at least one paint discharge point, there being an air supply device, which interacts with at least one air distribution device, which the air distribution device has a number of clearances, which serve for blowing out air, the clearances being arranged in such a way that between the at least one paint discharge point and the sonotrode and also between the at least one paint discharge point and the component there is formed at least one region with a blocking air flow, by which air flow wetting of the sonotrode or of the component with paint is substantially avoided.

Significant figure: Figure 1